

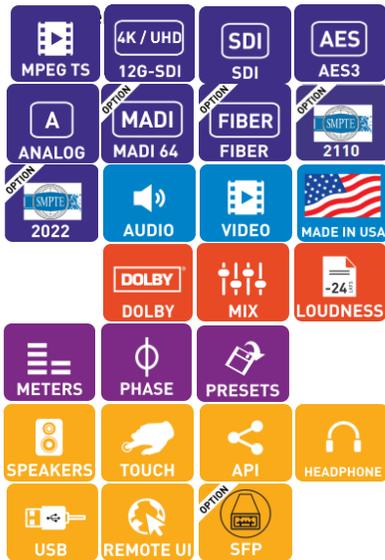
# iVAM2-MPEG



MPEG Video with Multi-Channel Audio and 12G A/V Monitoring of IP and Baseband Signals



## State of the art MPEG & 12G video and audio monitor with touch screen controls, and APIs for remote



Wohler Technologies is extending its groundbreaking iVAM Series of products with a new MPEG Video and multi-channel audio + 12G video monitor. The unit accepts MPEG over RJ45 TSoIP input. Separately, it includes 2 x 12G/3G/HD/SD-SDI signals over BNC as standard. 4 SFP cages allow for a variety of additional monitoring options, including 2110, 2022-6, as well as additional SDI inputs in a variety of combinations listed in the table below.

### Flexible Adaptable Future Proof

iVAM2-MPEG is designed to be easy to operate, yet powerful enough to provide high quality, accessible and easy to use monitoring of the newest signals (MPEG SRT, 12G, 2110, 2022-6) within a compact form factor. Touch screen & front panel controls duplicate previous mature design philosophies of shipping iAM units. At 2U, with upgraded speakers and sub-woofers, the iVAM2-MPEG also provides the powerful sound output and audio reproduction that Wohler is well known for.

### Network Capable with Remote access options:

A front mounting USB port is available for simple software updates. All iAM Series monitors contain an onboard web server. Multiple units on the same network can be updated, monitored, and controlled via a web-based user interface.

### Features/Benefits

- Monitor MPEG, H.264 & HEVC encoded video along with MPEG1/2/3, AAC, Dolby® D, DD+, E audio in TS over IP (UDP or SRT). Display of PID tables after parsing MPEG TS. Supports SRT and UDP multicast streams up to 30 Mbps, 10-bit video, 4:2:2 up to UHD.
- **Standard I/O:** RJ45 TSoIP for MPEG; 2 x 12G (4K) SDI inputs that also monitor 3G/HD/SD-SDI signals as well
- **Optional I/O:** for AES3 on HD-15 (including selected audio source converted to AES3 out), 4 x SFP cages allowing a range of optional connectors and signal processing options, fully listed in the table below, including ST 2110 and ST 2022
- **Option Card:** To enable Analog, MADI, Dante & Ravenna
- Measure Audio Loudness using ITU-R BS. 1770 or EBU R128 standards - included
- Video monitoring and audio monitoring of up to 16 channels of audio from multiple sources
- Built-in speakers, headphone jack, USB and Ethernet ports with APIs for remote management
- Store and retrieve presets via USB or remote web interface
- Software upgradeable via USB or network, upgrade multiple units at once

Model	Part ID	Description
iVAM2-MPEG (Base Unit)	8114-0360	2RU MPEG Audio/Video monitoring and metering, Dual input 12G/3G/HD/SD-SDI. 4 pairs of AES inputs hardware ready, 16 analog outputs & downmixed analog outputs on XLRs. Capable of monitoring MPEG-2, H.264 & HEVC encoded video along with MPEG1/2/3, AAC audio in TS over IP (UDP or SRT). Dolby® D, DD+, E streams over MPEG-TS/SDI/AES inputs and OPT-OUTPUT ROUTING are included.
<b>Options</b>		
OPT-AES	829080	Enable monitoring of 4 AES3 Input Pairs. Software activation key.
OPT-MADI/ANLG/TOS	829168	Enable monitoring of 8 Analog channels on DB-25, monitoring of 1 x MADI64 I/P via BNC. Inc. TOSLINK
OPT-DANTE (12G)	829164	Enable monitoring from up to a 64ch Dante™ Input. Includes OPT-MADI/ANLG/TOS
OPT-RAVENNA 64 (12G)	829165	Enable monitoring from up to a 64ch Ravenna™ / AES67 Input. Includes OPT-MADI/ANLG/TOS+ NMOS support
<b>SFP's</b>		
SFP-MADI-MM-Fiber	829081	MADI optical fiber receiver; Multi-Mode, LC (fiber) Connectors.
SFP-MADI-SM-Fiber	829082	MADI optical fiber receiver; Single-Mode, LC (fiber) Connectors.
SFP-12G-SDI FIBER	829160	12G, 3G/HD/SD-SDI single mode Optical LC (fiber) video receiver
SFP-SDI	829089	3G/HD/SD-SDI single video receiver w/active loopback, HD-BNC
SFP-SDI-OUTPUT	829083	3G-SDI Transceiver; HD-BNC connectors; I/P and O/P are both SDI
SFP-HDMI-OUTPUT	829155	HDMI/DVI O/P, HDMI 2.0 Type D conn. Video O/P is set at 1080p60 from selected video source.
SFP-2110 w/Ember+	829086	SMPTE 2110 receiver; Multi-Mode 850 NM, LC (fiber) Connectors. SMPTE
SFP-2110 w/NMOS	829086-1	SMPTE 2110 receiver; Multi-Mode 850 NM, LC (fiber) Connectors. SMPTE
SFP-2022	829088	SMPTE 2022 receiver, LC (fiber) Connectors.
SFP-2110 w/Ember+ +2022-6	829087	SMPTE 2110 or 2022-6 receiver; Multi-Mode 850 NM, LC (fiber) connectors.
SFP-2110+2022-6 w/NMOS	829087-1	SMPTE 2110 or 2022-6 receiver; Multi-Mode 850 NM, LC (fiber) connectors.



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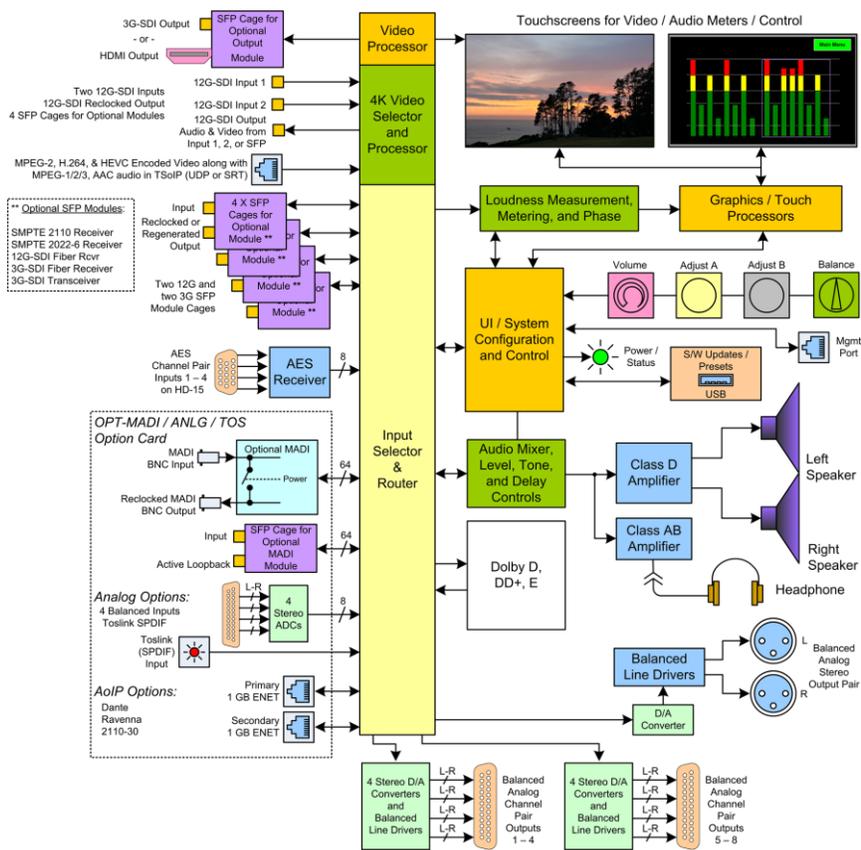


Multi-Channel Audio and 12G/4K Video Monitoring & Metering of IP and Baseband Signals

Rear Panel Shown below with OPT-MADI/ANLG/TOS. When adding Dante or Ravenna, this option is included.



## Block Diagram



Specifications	iVAM2-MPEG
<b>Dimensions (W x H x D)</b>	2RU in standard 19" rack: 19" x 3.5" x 9.5" (483 mm x 89 mm x 242 mm)
<b>Shipping &amp; Net weight/dims</b>	Shipping: 16.0 lbs. (7.3 kg) – 24" x 17" x 8" Net: 11.0 lbs. (5.00 kg) 19" x 9.5" x 3.5"
<b>Power Consumption / Supply</b>	40 Watts typical, 18VDC 100 to 240 VAC ± 10%, 50/60 Hz, CD & UL approved
<b>Display Type / Resolution</b>	4.3" (109 mm) LCD Capacitive Touchscreen x 2; 480H x 272V
<b>Audio Channels</b>	16 Max
<b>Hum and Noise</b>	Better than -75 dB below full output
<b>Peak Acoustic Output</b>	104 dB SPL @ 2 feet
<b>Speaker Power Output</b>	RMS Each Side: 15W Continuous / 30W Peak
<b>Upgrades</b>	Via USB or Web GUI; Upgrading multiple units available via web interface
<b>Presets</b>	Programmable/nameable. Can be copied from unit to unit via USB or GUI software / Ethernet
<b>Available APIs</b>	Get Available Presets; Get Preset Information; Get Active Preset; Set Mute/Unmute Clusters; Set Solo Cluster; Set Solo Channel; Source Select

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